

ABSTRACT OF THE DISCLOSURE

A device for controlled release of molecules is provided. The device including: (a) a device body having at least one reservoir therein for containing the molecules, the at least one reservoir being formed with a barrier impermeable to the molecules thereby preventing release thereof from the at least one reservoir; and (b) at least one acoustic transducer being attached to, or forming a part of, the device body, the at least one acoustic transducer being for converting an acoustic signal received thereby into an electrical signal, the electrical signal leading to barrier permeabilization and therefore release of the molecules from the at least one reservoir.